

We claim:

1. An aqueous additive system for direct addition to polymeric matrix resins comprising at least one polymeric additive selected from

- i) polymers comprising, as polymerized units, alkyl acrylates;
- ii) polymers comprising, as polymerized units, alkyl (meth)acrylates;
- iii) polymers comprising, as polymerized units, 1,3-dienes;
- iv) polymers comprising, as polymerized units, aromatic vinyl monomers;
- v) polymers comprising, as polymerized units, acrylonitrile;

wherein the polymeric additive is present in amounts from 5 to 70 percent by weight of the additive system.

2. The additive system of claim 1 wherein the system is in the form of an aqueous emulsion.

3. The additive system of claim 1 wherein the system is in the form of coagulated slurry or wetcake.

4. The additive system of claim 1, 2 or 3 wherein the polymeric additive is a graft copolymer comprising at least 10 percent by weight of a rubbery core.

5. The additive system of claim 4 wherein the rubbery core exceeds 70 percent by weight of the graft copolymer.

6. The additive system of claim 5 wherein the rubbery core is from 90 to 95 percent by weight of the graft copolymer.

7. A method of blending additives with polymeric matrix resins comprising

A) forming an additive-matrix mixture by contacting said polymeric matrix resins with an aqueous additive system comprising at least one polymeric additive selected from

- i) polymers comprising, as polymerized units, alkyl acrylates;
- ii) polymers comprising, as polymerized units, alkyl (meth)acrylates;
- iii) polymers comprising, as polymerized units, 1,3-dienes;

iv) polymers comprising, as polymerized units, aromatic vinyl monomers;

v) polymers comprising, as polymerized units, acrylonitrile;

wherein the polymeric additive is present in amounts from 5 to 70 percent by weight of the additive system; and

B) drying said additive-matrix mixture.

8. The method of claim 7 wherein the polymer matrix is in powder form.

9. The method of claim 7 wherein the polymer matrix is in the form of wet cake.

10. The method of claim 7 wherein the polymer matrix is in the form of a melt.

11. The method of claim 7 wherein the additive system is in the form of an emulsion.

12. The method of claim 7 wherein the additive system is in the form of coagulated slurry or wetcake.

13. The method of claim 8, 9, 10, 11, or 12 wherein the polymeric additive is a graft copolymer comprising at least 10 percent by weight of a rubbery core.

14. The method of claim 8, 9, 10, 11, or 12 wherein the rubbery core exceeds 70 percent by weight of the graft copolymer.

15. The method of claim 14 wherein the rubbery core is from 90 to 95 percent by weight of the graft copolymer.

16. The method of claim 7 wherein the dry weight ratio of polymeric additive to matrix polymer is from 0.1:99.9 to 25:75.

17. The method of claim 7 wherein the polymeric matrix resin comprises polymerized units of vinyl chloride.

ADD 7
A¹

ADD 7
D²